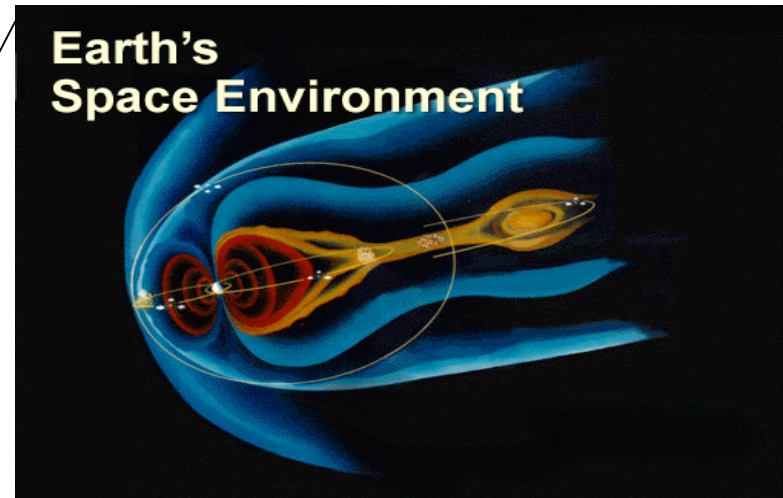
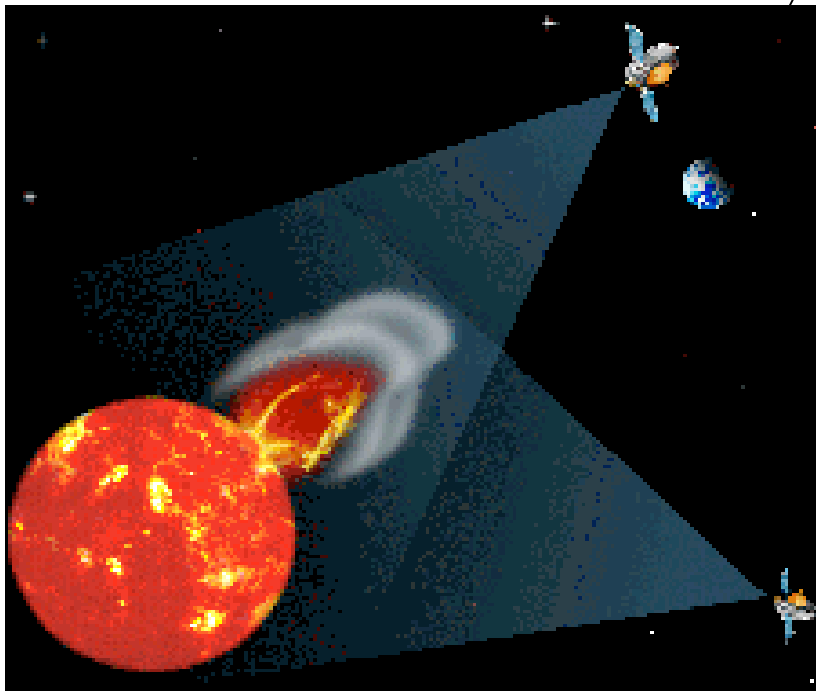


Living With a Star Information System

- **Connected Sun-Earth science goals**
- **Understand the dynamics of solar variability and Geo-reaction**



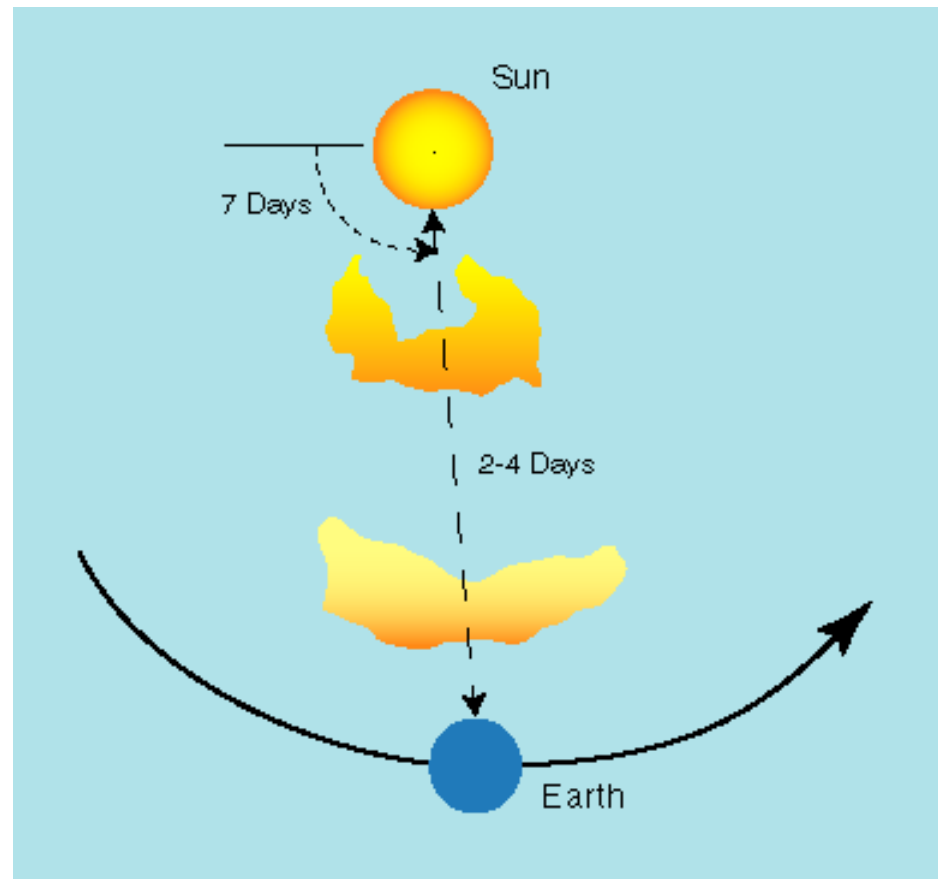
- **Near Real-time summary data to users**
- **Ultimate Goal:**
Continuous Sun - Geospace weather map

How can we increase forecast lead time for Geospace?

- Disturbances take only 2-4 days to reach Earth
- In 7 days solar active regions rotate from limb to central meridian



In order to increase the lead time for forecasts we must observe the solar Far Side.



Living With a Star Information System

- **Open data policy**
- **System includes manipulation tools and calibration information**
- **Distributed system, centralized summary information**
- **Remote data access transparent to PIs**
- **Internet accessibility; data and real-time, near real-time products to:**
 - **Science investigations**
 - **Users**
 - **Public**
- **Targeted products for NASA Select, Weather Channel, public TV, museums, potential EPO receivers, etc.**

Living With a Star Information System

- **Challenge: Combine solar and geospace data, both practically and philosophically; capture dynamics**
- **Geo-images, heliospheric visualization; data driven**
 - **Interplanetary models, CME imaging**
 - **MHD simulations**
 - **Integration of constellation mission data**
 - **Magnetospheric imaging**
 - **Auroral images**
 - **Space Weather event maps; instant replays**

Reference: July 1998 Report of the SEC Study Team of the Space Science Data Systems Technical Working Group

